HYUNDAI Technical Service Bulletin

Group	FUEL SYSTEM
Number	09-FL-016
Date	OCTOBER, 2009
Model	2007-2010 ACCENT (MC)

Subject

ECM UPDATE - MIL ON WITH DTC P0140, P0128, P0461 OR P0442

CIRCULATE TO:	[ ] GENERAL MANAGER	[X] PARTS MANAGER	[X] TECHNICIAN
[X] SERVICE ADVISOR	[X] SERVICE MANAGER	[X] WARRANTY MGR	[ ] SALES MANAGER

DESCRIPTION:

This bulletin provides the procedure to update the Engine Control Modules (ECM) of some 2007-2010 ACCENT (MC) vehicles which may experience the following conditions.

- 2007-2008 ACCENT
  - DTC P0128 (Coolant Thermostat - Coolant Temp. Below Thermostat Regulating Temperature)
- 2007-2009 ACCENT
  - Rough Engine Idle (with no other contributing mechanical conditions)
- 2007-2010 ACCENT with
  - DTC P0140 (Bank1 Sensor 2 - O2 Sensor Circuit No Activity Detected)
  - DTC P0461 (Fuel Level Sensor "A" Circuit Range/Performance)
  - DTC P0442 (Evaporative Emission System - Small Leak detected)

NOTE: There are no vehicle performance issues associated with this condition.

APPLICABLE VEHICLES:

- Model: 2007-2010 Accent (MC) vehicles

NOTE: To verify the vehicle is affected, be sure to check the version of the vehicle's engine control unit ROM ID with reference to the ROM ID Information Table on the following page before attempting to update the control unit software.

ROM ID INFORMATION TABLES:

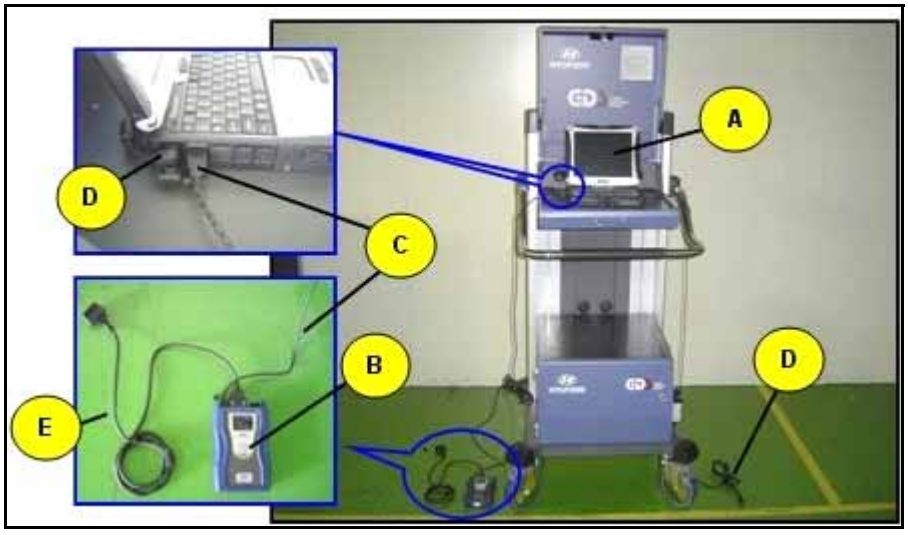
Model Year	T/A	ECM P/N	ROM ID	
			Previous	New
2007	M/T	39111-26BE0	GMC-7N6CES0-5000 GMC-7N6CES1-5000 GMC-7N6CES2-5000 GMC-7N6CES3-5000 GMC-7N6CES4-5000 GMC-7N6CESA-5000 GMC-7N6CES5-5000 GMC-7N6CES6-5000 GMC-7N6CES7-5000	GMC-7N6CES8-5000
	A/T	39111-26BE5	GMC-7N6CPS0-A000 GMC-7N6CPS1-A000 GMC-7N6CPS2-A000 GMC-7N6CPS3-A000 GMC-7N6CPS4-A000 GMC-7N6CPSA-A000 GMC-7N6CPS5-A000 GMC-7N6CPS6-A000 GMC-7N6CPS7-A000	GMC-7N6CPS8-A000
2008	M/T	39111-26BE1	GMC-8N6CES0-5000 GMC-8N6CES1-5000 GMC-8N6CES2-5000 GMC-8N6CES3-5000 GMC-8N6CES4-5000	GMC-8N6CES5-5000
	A/T	39111-26BE6	GMC-8N6CPS0-A000 GMC-8N6CPS1-A000 GMC-8N6CPS2-A000 GMC-8N6CPS3-A000 GMC-8N6CPS4-A000	GMC-8N6CPS5-A000
2009	M/T	39131-26BE1	GMC-9N6CES0-5000 GMC-9N6CES1-5000 GMC-9N6CES2-5000 GMC-9N6CES3-5000 GMC-9N6CES4-5000 GMC-9N6CES5-5000	GMC-9N6CES6-5000
	A/T	39131-26BE6	GMC-9N6CPS0-A000 GMC-9N6CPS1-A000 GMC-9N6CPS2-A000 GMC-9N6CPS3-A000 GMC-9N6CPS4-A000 GMC-9N6CPS5-A000	GMC-9N6CPS6-A000
2010	M/T	39132-26AL0	GMC-AN6CES0-5000	GMC-AN6CES1-5000
		39132-26BL0	GMC-AC6CES0-5000	GMC-AC6CES1-5000
	A/T	39132-26AL5	GMC-AN6CPS0-A000	GMC-AN6CPS1-A000

SERVICE PROCEDURE:

CAUTION: Please ensure the following items during the control unit update.

- Make sure the vehicle's battery has reasonable charge. If the vehicle has been in storage for days, run the engine to ensure an adequate battery charge state for reliable update results.
- Turn off all lamps (do not leave head lamp switch in auto mode) and all accessories (including heater, A/C, blower, radio, seat warmer, defroster, etc.) to prevent battery discharge during the update.
- Perform update with the ignition switch in the ON position.
- Be careful not to disconnect any cables connected to the vehicle or scan tool during the update.
- Do not start the engine during update.
- Do not turn off the ignition switch during update.

GDS INSTALLATION PROCEDURE:



A: Diagnostic Terminal

B: VCI (Vehicle Communication Interface)

C: USB (Universal Serial Bus) Cable

D: Power Supply Cable

E: DLC Cable

1. Connect the power supply cable to the diagnostic terminal.

NOTE: If attempting to perform the update with the power supply cable disconnected from the diagnostic terminal, make certain that the diagnostic terminal is charged enough for the update. If not, the update may fail in progress. Therefore, it is strongly recommended to connect the power supply cable to the diagnostic terminal during the update procedure.

2. Connect the USB cable between the VCI and the diagnostic terminal.

NOTE: When performing the update using the GDS, wireless communication between the VCI and the diagnostic terminal is NOT available. Therefore, be sure to connect the USB cable between the VCI and the diagnostic terminal.

3. Connect the 16-pin DLC cable from the VCI into the vehicle's 16-pin connector under the driver side instrument panel.

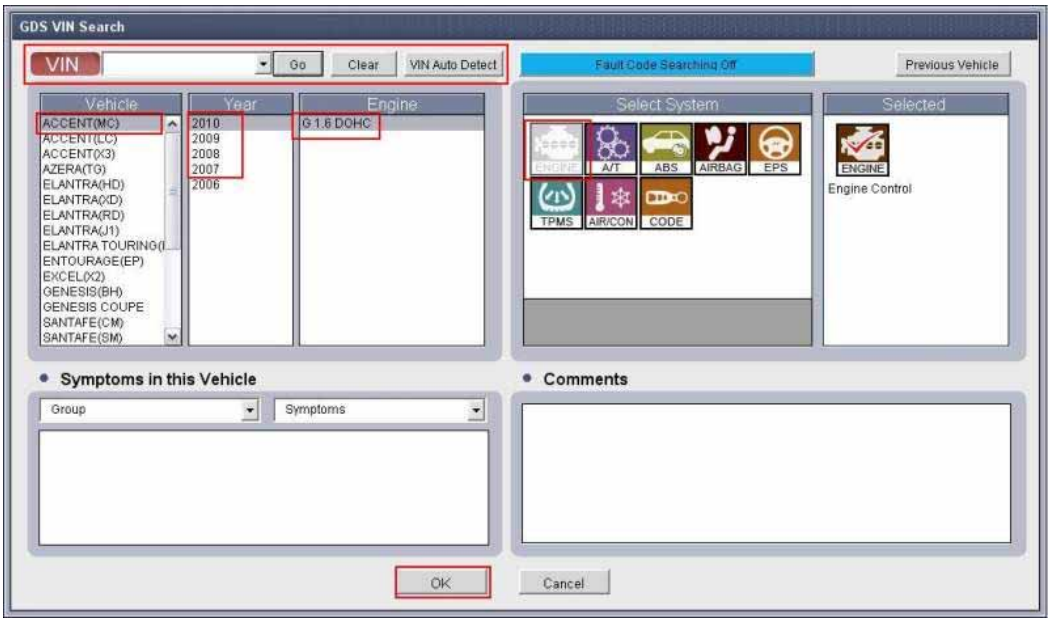
4. Turn on the VCI and diagnostic terminal with the ignition key in the ON position.

NOTE: Do not start the engine.

AUTOMATIC UPDATE PROCEDURE USING THE GDS:

1. Choose **VIN or ECU Upgrade** on the initial screen.

2. Enter the vehicle information by pressing the **VIN Auto Detect** button, entering the vehicle's VIN or selecting the vehicle model, **model year**, engine/fuel type and **ENGINE** as the system and then click **OK.**



3. Select **ECU Upgrade** on the initial screen after entering the vehicle information.
4. Select **Auto Mode** then **ENGINE** in the left **ECU Upgrade** column.
5. Read Preparation and click **OK**.
6. The GDS will read the vehicle's ROM ID.
7. After the **Current ROM ID** is displayed, select the **Upgrade Event, "150. MC P0442 AND P0461 DTC LOGIC"**
8. After clicking the **Upgrade button,** read Information then click **OK.**
9. The vehicle battery voltage is checked to make sure it is at least 12 volts to ensure reliable update results. Click **OK** if the results indicate **Voltage is OK.**

NOTE: If voltage is below 12 volts, click Cancel and then run the engine to ensure an adequate battery charge state for reliable update results.

10. Update will begin and the progress of the update will appear on the bar graph.
11. Updating will occur until 100% is reached on the bar graph. Turn the ignition key OFF for 10 seconds, place it back in the ON position and then click **OK** to continue according to **Information** displayed on the screen.
12. Click **OK** on the final screen, which indicates update is complete.
13. Check if any incidental Diagnostic Trouble Codes (DTC) have been created by the update and clear the DTC (s) present.
14. Start the engine to confirm proper operation of the vehicle.

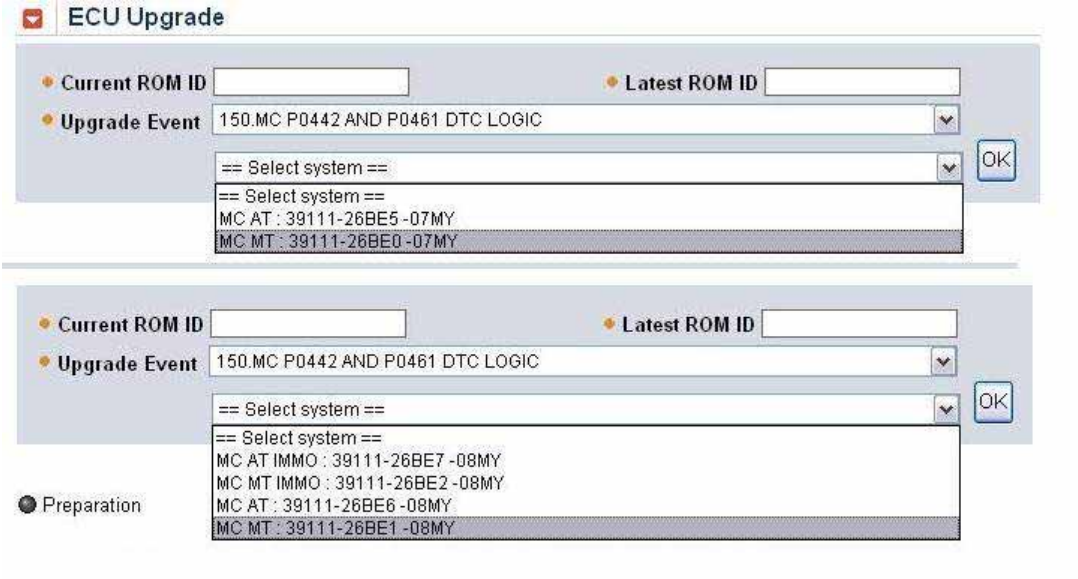
MANUAL UPDATE PROCEDURE USING THE GDS:

CAUTION:

- **Manual update should be performed only when automatic update fails.**
- **Pull out the ECM fuse from the engine compartment junction box or disconnect the battery negative cable to reset the control unit before performing manual update.**

1. Turn the ignition key back to the ON position.

2. Within the **ECU Upgrade** screen, select **Manual Mode** in the left column, then select **Upgrade Event #150**. Select the appropriate control unit part number with reference to the ROM ID Information Table and click **OK**.



(Refer to the ROM ID Information Table to select the appropriate control unit P/N.)

3. Enter the appropriate password from the table below and then click **OK.**

MY	MENU	PASSWORD
2007	MC MT : 39111-26BE0 -07MY	**1260**
	MC AT : 39111-26BE5 -07MY	**1265**
2008	MC MT : 39111-26BE1 -08MY	**1261**
	MC AT : 39111-26BE6 -08MY	**1266**
2009	MC MT : 39131-26BE1 -09MY	**1263**
	MC AT : 39131-26BE6 -09MY	**1268**
2010	MC MT : 39132-26AL0	**2260**
	MC AT : 39132-26AL5	**2265**
	MC MT (E-BLUE) : 39132-26BL0	**2262**

4. The vehicle battery voltage is checked to make sure it is at least 12 volts to ensure reliable update results. Click **OK** if the results indicate **Voltage is OK**.

NOTE: If voltage is below 12 volts, click Cancel and then run the engine to ensure an adequate battery charge state for reliable update results.

5. Update will begin and the progress of the update will appear on the bar graph.

6. Updating will occur until 100% is reached on the bar graph. Turn the ignition key OFF for 10 seconds, place it back in the ON position and then click **OK** to continue according to **Information** displayed on the screen.

7. Click **OK** on the final screen, which indicates update is complete.

8. Check if any incidental Diagnostic Trouble Codes (DTC) have been created by the update and clear the DTC (s) present.

9. Start the engine to confirm proper operation of the vehicle.

WARRANTY CLAIM INFORMATION:

OP CODE	OPERATION	OP TIME	* CAUSAL P/N	NATURE	CAUSE
39110F1F	**ECM Update**	**0.2 M/H**	**391_ _ - _ _ _ _ _** **(* Refer to ROM ID table for corresponding ECM P/N.)**	**N69**	**C40**